عنوان مقاله:
Molecular Characterization and SCCmec in Methicillin Resistant Staphylococcus aureus from Healthy Worker Nasal Swab in Larestan Hospital
محل انتشار:
مجله بين المللى آزمايشگاه پزشكى, دوره 3, شماره 3 (سال: 1395)

تعداد صفحات اصل مقاله: 6
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خلاصه مقاله:
Background and Aims: The aim of present study was to investigate the molecular characteristic of Staphylococcus aureus to detect mec A gene and to type SCCmec in strain isolated from healthy worker at Larestan Hospital. Material and Methods: This study was carried out from the ra• nasal swab healthy worker at Larestan hospital. Multiplex polymerase chain reaction for mecA gene was performed in all samples. Also, agar screen plate with oxacillin was carried out using CLSI guidelines. The two methods were then compared. Results: Of $\upharpoonright \omega \cdot$ samples, $\upharpoonright \vee(1 \uparrow . \wedge \%$ ) samples are Staphylococcus aureus, $\upharpoonright \wedge$ ( $V$ Q. $V \%$ ) of samples were confirmed at Methicillin-resistant Staphylococcus aureus (MRSA) harboring mec A gene detected by Multiplex polymerase chain


 all was resistant. Conclusion: Our results illustrated that more than $V \cdot \%$ of staph aureus strains were positive for mec A gene and more than $\Delta \cdot \%$ of them were HA-MRSA. In comparison to other methods, PCR and Agar screen method more sensitivity determines MRSA isolates. However, PCR was .identified as the ideal method for detecting MRSA strains


Healthy worker, Methicillin-resistant, Staphylococcus aureus
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